

● **BLAUPUNKT**

**AUTORADIO**

**Tokyo RDM 169 US**

**7 649 654 310**

**München RDM 169 US**

**7 649 655 310**

8 622 402 339 BN-ST 02/00

### Circuit diagram

**CLASS 1  
LASER PRODUCT**



**UNSICHTBARE LASERSTRAHLUNG  
NICHT DEM STRAHL AUSSETZEN  
LASERKLASSE 3B**

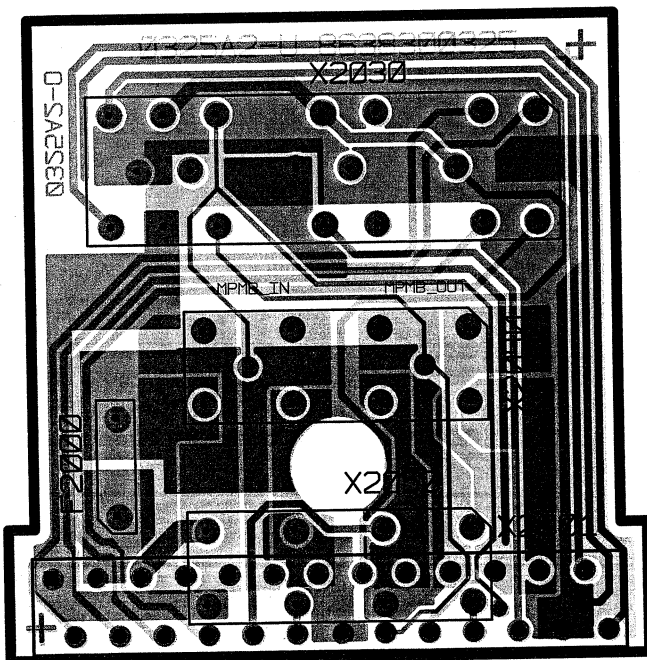


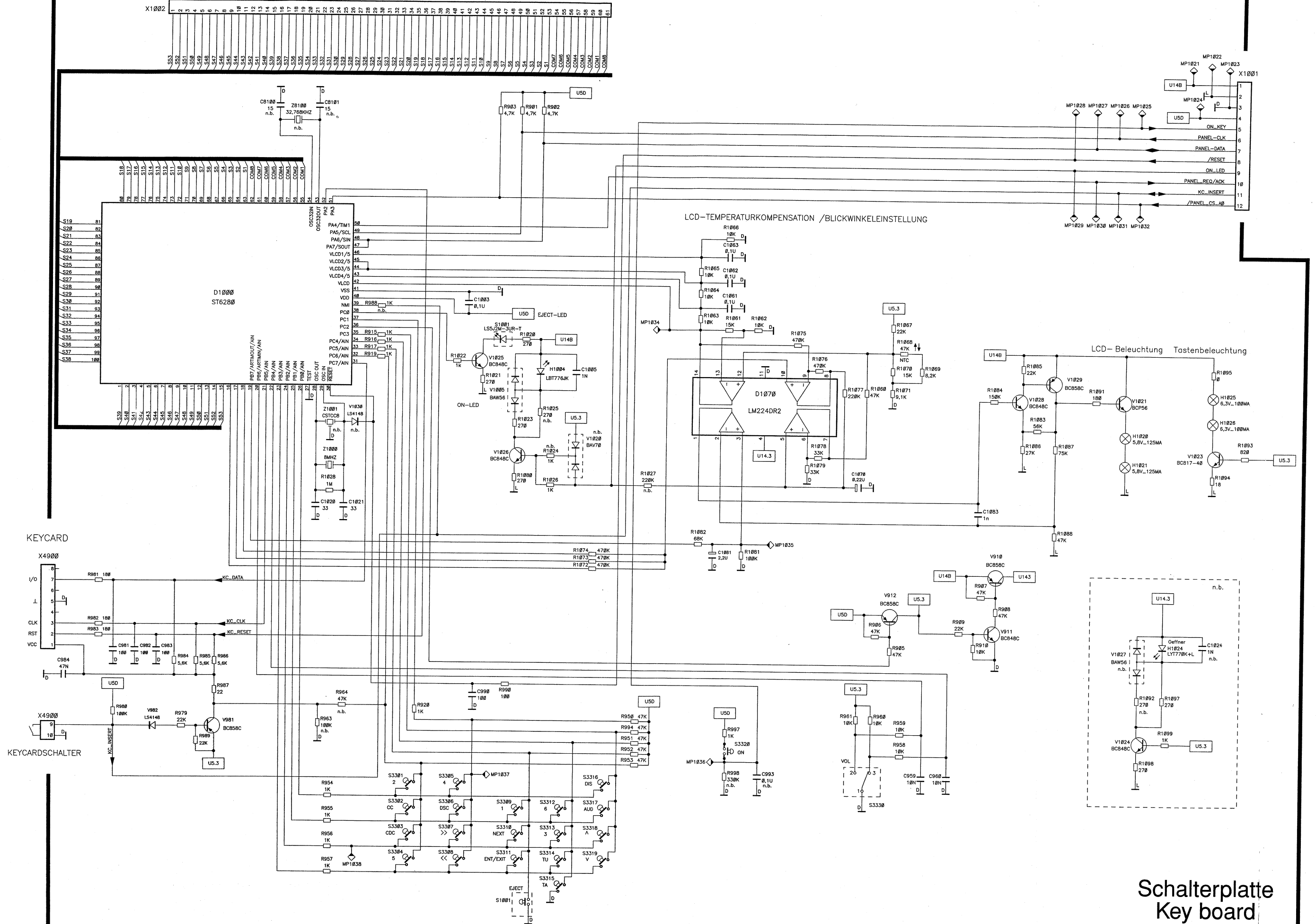
### **CAUTION!**

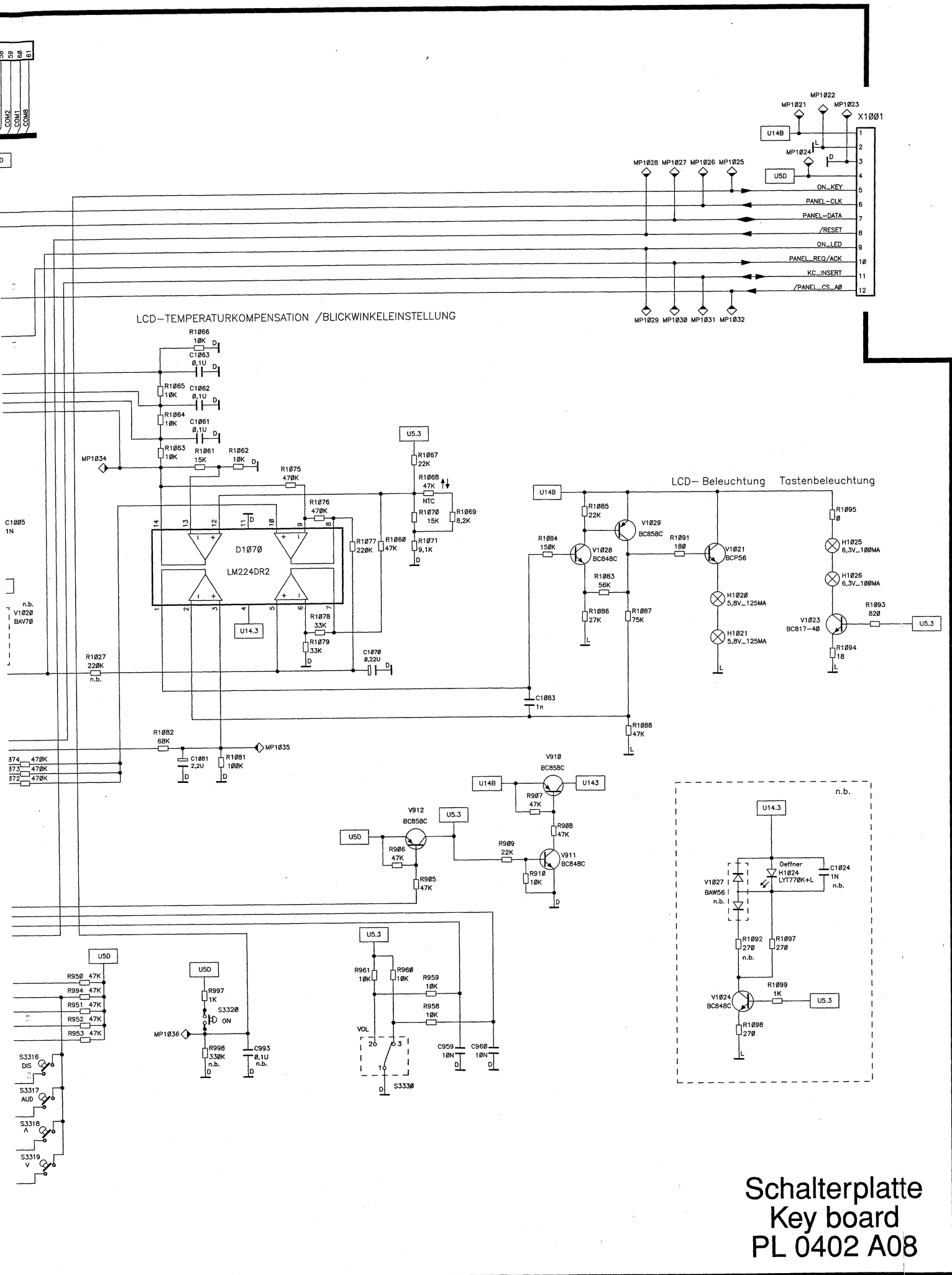
**This unit contains a laser component!**  
**For service observe the following important instructions:**

- The unit operates with an invisible laser beam. When the cover is removed, near the disc compartment, invisible laser beams are apparent.
- Avoid direct eye contact with these beams.
- Keep other people away from the working place.
- The viewing distance should not be less than 13cm.  
If this distance cannot be ensured, use suitable laser safety goggles.

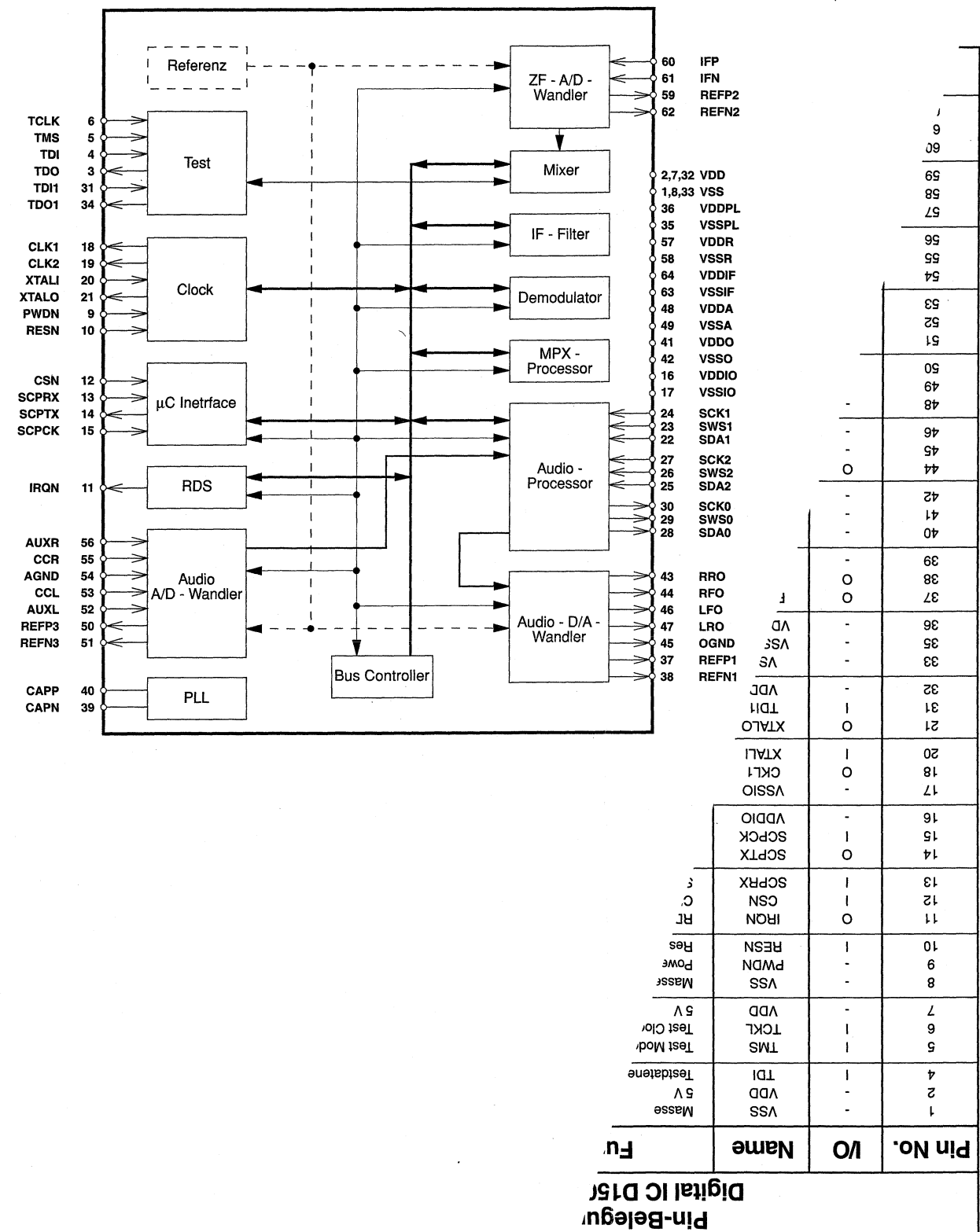
**Anschlußplatte  
Connector board  
PL 0325 A02**







# Digital-Signal IC D150 SC390253FU

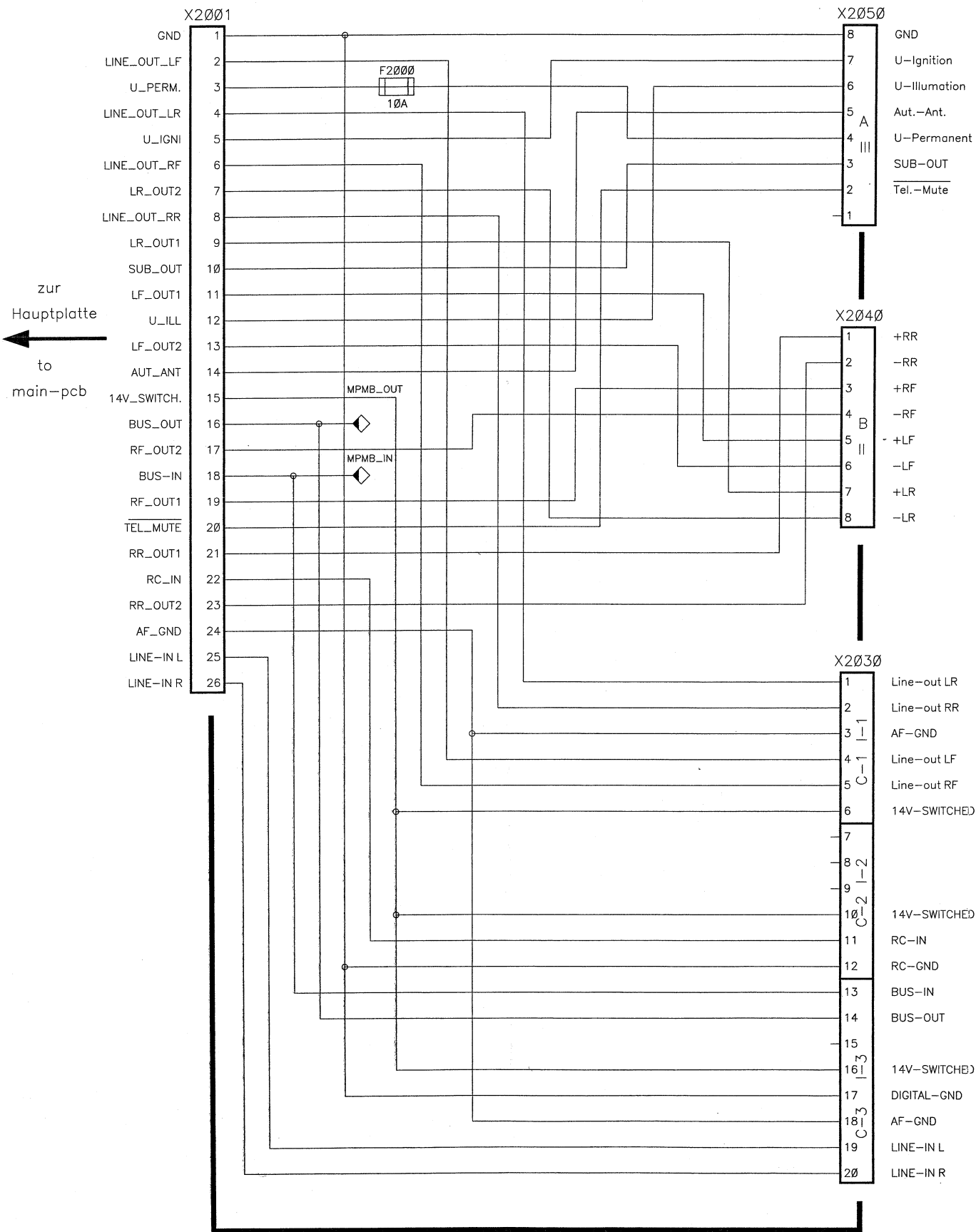


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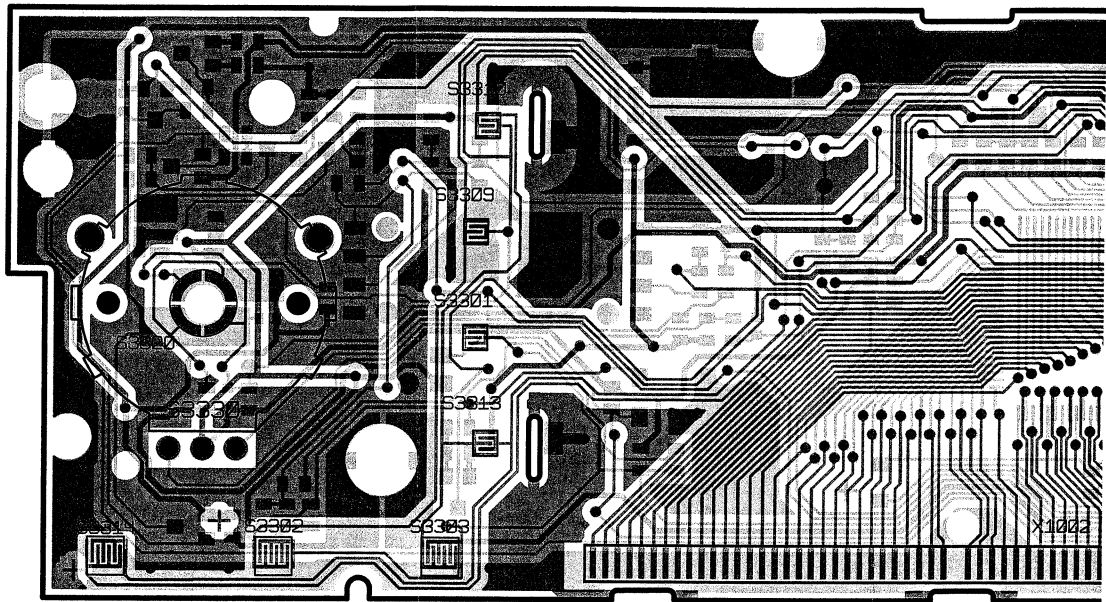
Blaupunkt-Werke GmbH, Hildesheim

# Anschlußplatte /Connector board

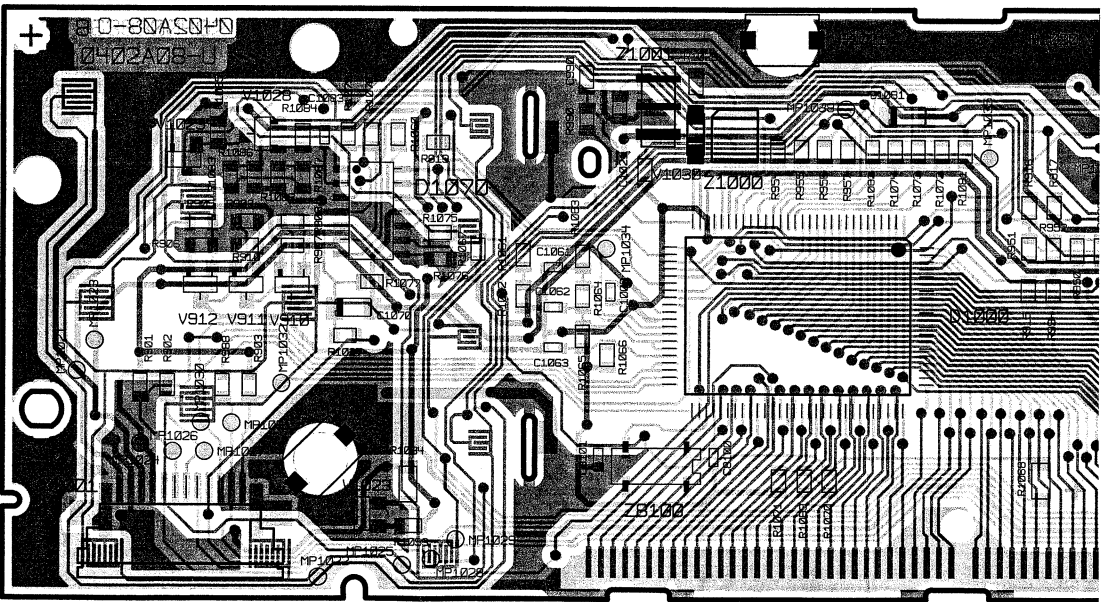
PL 0325 A02



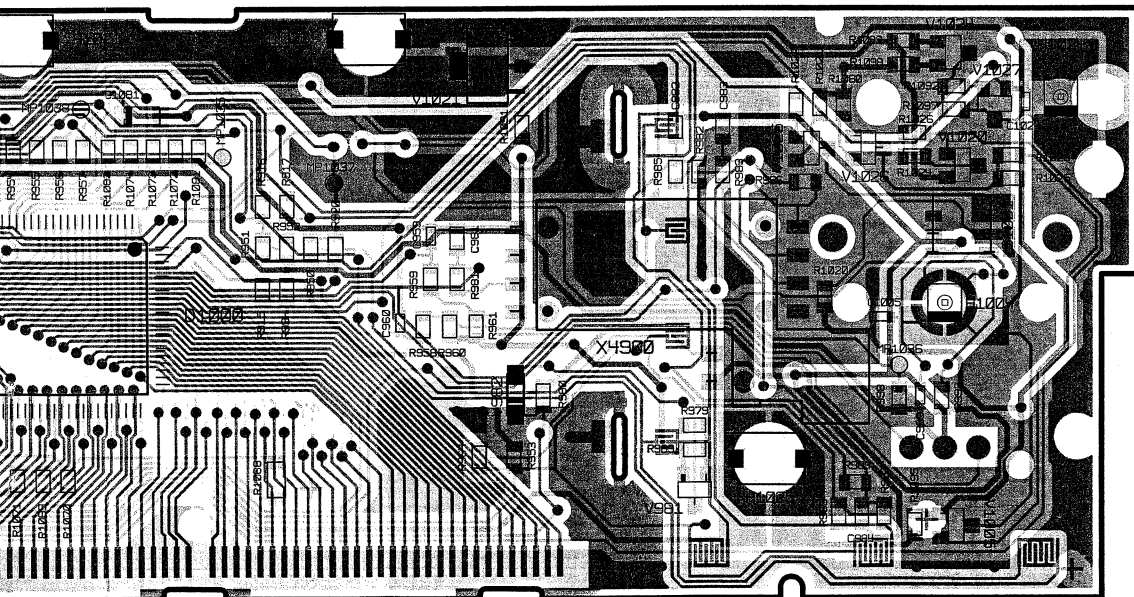
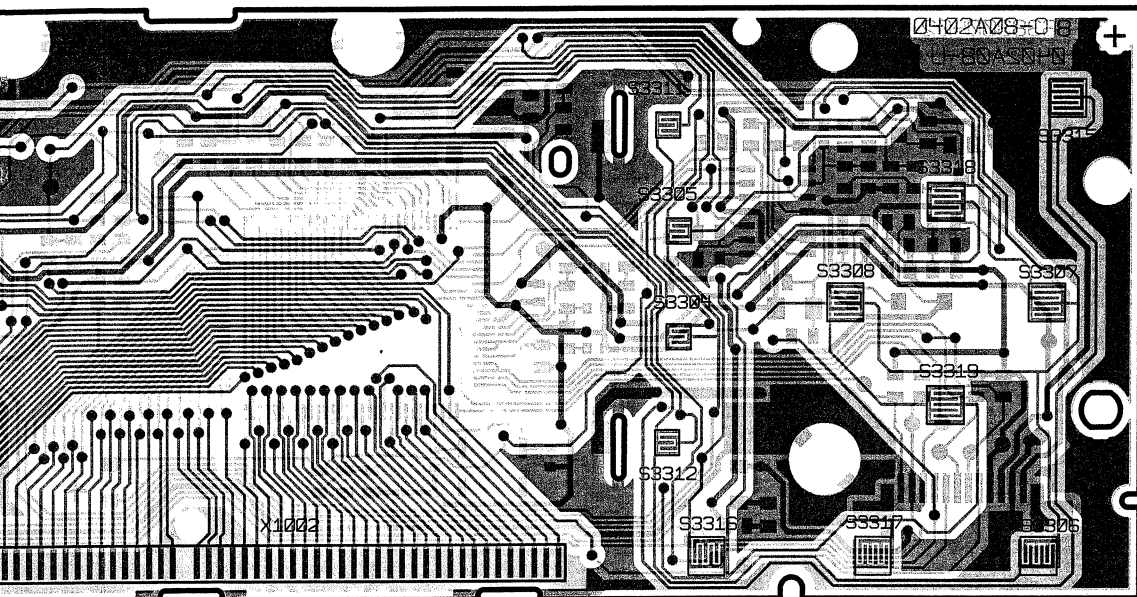
Schalterplatte  
Key board  
PL 0402 A08



Schalterplatte  
Key board  
PL 0402 A08  
Chip







Pin-Belegung des FM/AM Tuner-IC D1 Tuner IC D1 Pin configuration				
Pin No.	I/O	Name	Funktion	Function
1	-	MIXDEC	Mischer Entkopplung	Mixer decoupling
2	-	CINT	für PLL	for PLL
3	-	CHOLD	für PLL	for PLL
4	-	PLL GND	PLL - Masse	PLL Ground
5	-	VCC	8,5V	8,5V
6	-	VPLL	PLL Oberspannung	PLL top voltage
7	I	LFINP	Schleifenfiltereingang	PLL loop filter Input
8	O	LF1	Schleifenfilter 1	PLL loop filter Output 1
9	O	LF2	Schleifenfilter 2	PLL loop filter Output 2
10	O	LF3	Schleifenfilter 3	PLL loop filter Output 3
11	I	VTUNE	Abstimmspannung	Tuning voltage
12	I	OSCINP	Oszillator Eingang	Oscillator Input
13	O	OSCOUT	Oszillator Ausgang	Oscillator Output
14	-	OSCGND	Oszillator Masse	Oscillator Ground
15	O	VCC	8,5V	8,5V
16	O	OSCBUF	Oszillatorausgangstreiber	Oscillator Buffer Output
17	I	DGND	Digitale Masse	Digital Ground
18	I	CS	Chip Select	Chip Select
19	I	RD	Dateneingang	DATA IN
20	I	CLK	Clock	Clock
21	O	TX	Datenausgang	DATA OUT
22	I	FREF	Referenzfrequenz	Reference frequency
23	-	IFAGC2	ZF Regelspannung 2	IF AGC 2
24	O	IFOUT1	ZF - Ausgang 1	IF output 1
25	O	IFOUT2	ZF - Ausgang 2	IF output 2
26	-	IFAGC1	ZF Regelspannung 1	IF AGC 1
27	-	IFGND	ZF Masse	IF Ground
28	I	IFIN	ZF Eingang	IF Input
29	-	VDC	Interne Referenzspannung	Internal reference voltage
30	-	VCC	8,5V	8,5V
31	O	MIXOUT2	Mischerausgang 2	Mixer Output 2
32	O	MIXOUT1	Mischerausgang 1	Mixer Output 1
33	-	AMREF	AM - Referenzeingang	AM reference Input
34	I	AMMIXIN	AM Mischereingang	AM Mixer Input
35	-	RFAGC3	HF Regelzeitkonstante (aufregeln)	RF AGC 3
36	O	RFAGCAM	HF Steuerspannung Vorstufe AM	RF AGC for AM input stage
37	O	RFAGCFM	HF Steuerspannung Vorstufe FM	RF AGC for FM input stage
38	-	MIXGND	Mischer Masse	Mixer Ground
39	-	RFAGC2	HF Regelzeitkonstante (Detektor)	RF AGC 2
40	-	RFAGC1	HF Regelzeitkonstante (abregeln)	RF AGC 1
41	-	ANGGND	Analog Masse	Analog ground
42	-	FMMIXREF	Referenzspannung FM Mischer	Reference voltage FM mixer
43	I	FMMIXINP	FM Mischer Eingang	FM mixer input
44	-	RFAGCD	AGC Entkopplung	AGC decoupling

Prüfdiagnose Tuner IC (D1) Diagnosis test tuner IC (D1)						
Pin	Band	Frequenz	E'	Uss	Vermerke	Notice
24+25 (ZF-OUT)	FM	97,1 MHz	83 dBμV	650 mVss	jeweils gegen Masse	respective against GND
28	FM	97,1 MHz	80 dBμV	25 mVss		
31+32	FM	97,1 MHz	80 dBμV	200 mVss	jeweils gegen Masse	respective against GND
31+32	AM	900 kHz	80 dBμV	200 mVss	jeweils gegen Masse	respective against GND
34 (AM-IN)	AM	900 kHz	80 dBμV	50 mVss		
36	AM	900 kHz	ab 73 dBμV		künstliche Antenne aus	not commutated
37	FM	97,1 MHz	ab 80 dBμV			

zu Schaltbild

Chicago RCM 169

Paris RCM 169

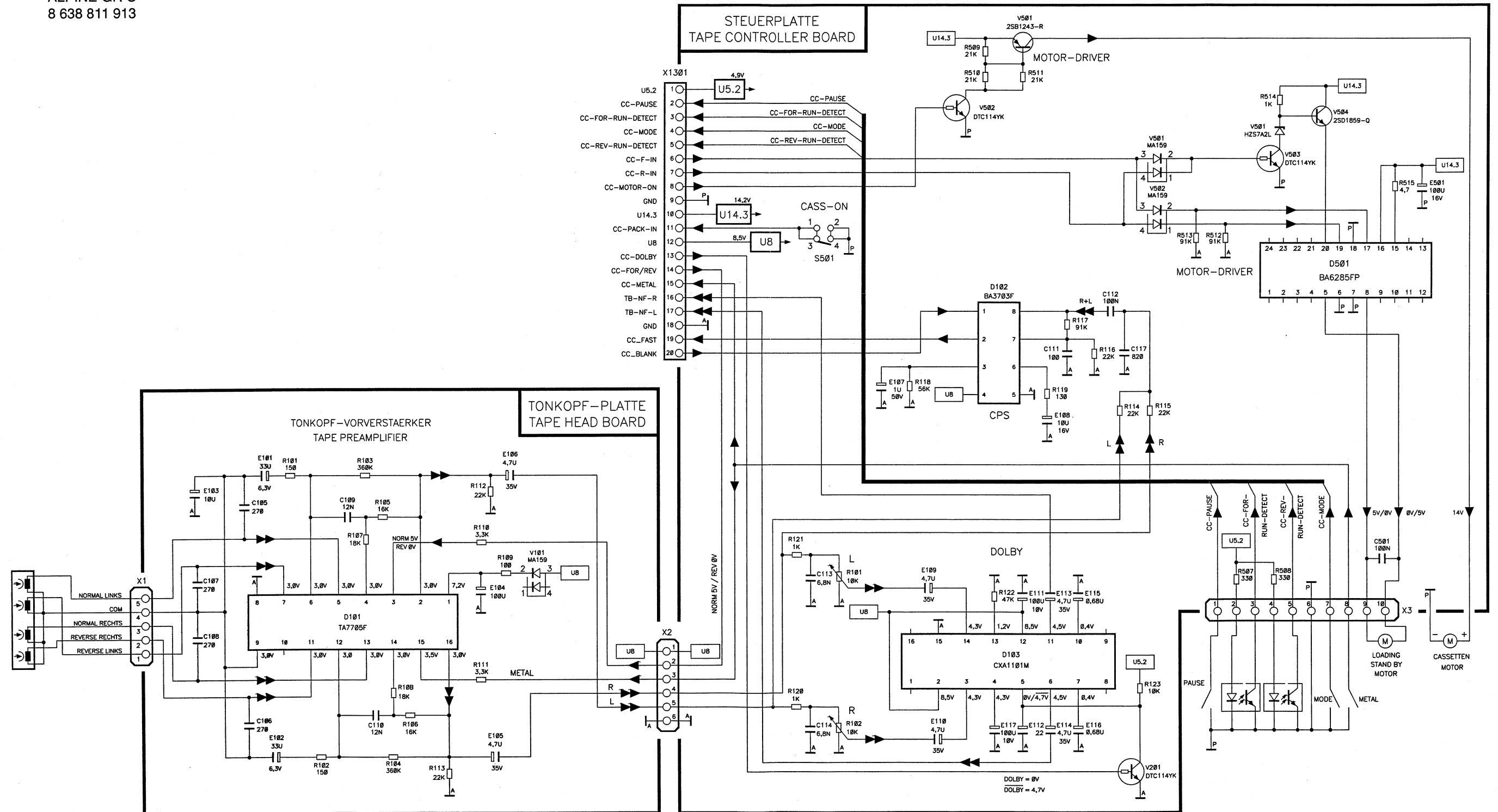
Kansas DJ

8 622 401 999

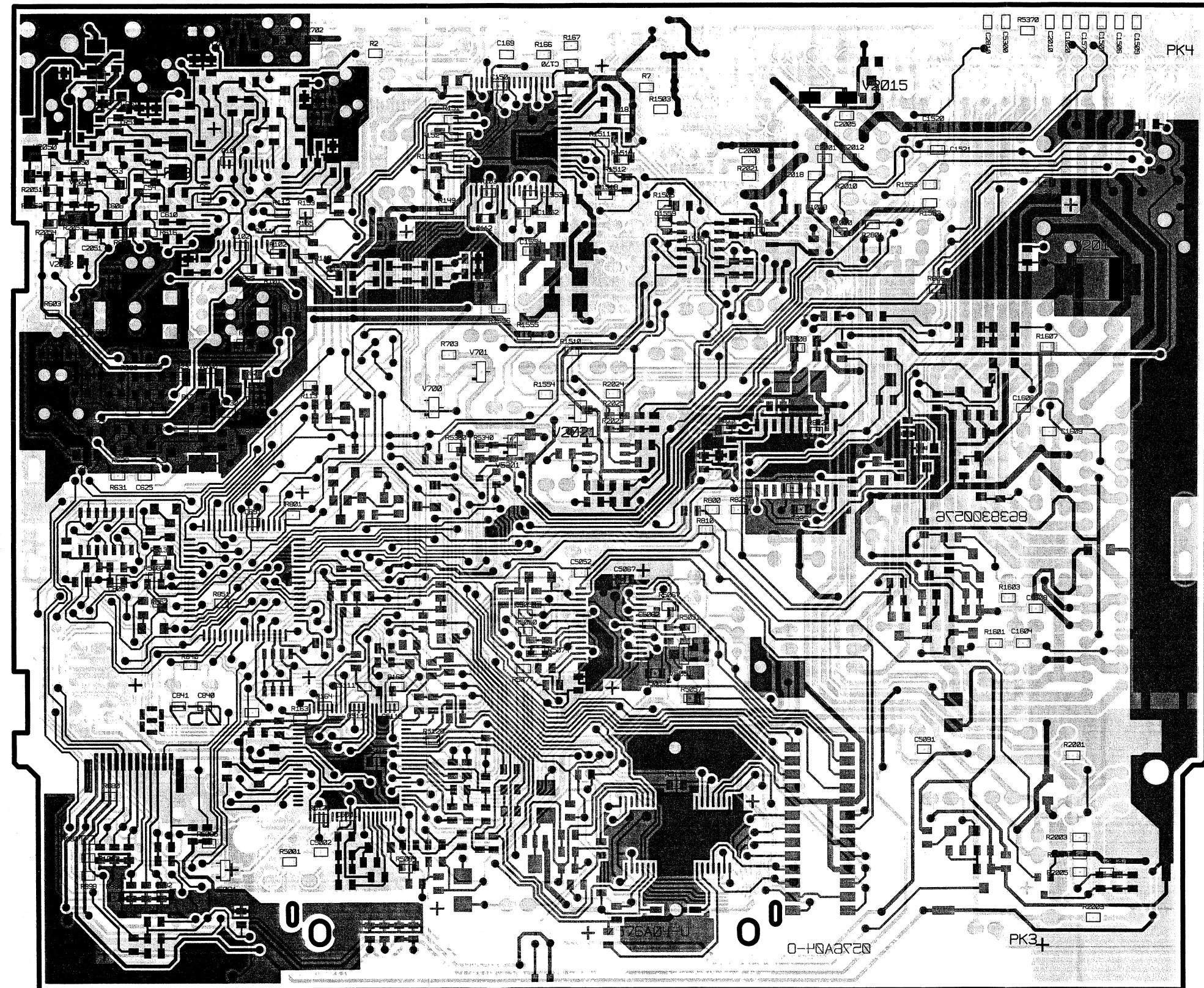
8 622 401 999

8 622 401 999

KASSETTEN LAUFWERK  
CASSETTE MECHANISM  
ALPINE GR-S  
8 638 811 913



Hauptplatte  
Main board  
PL 0576 A04  
Chip







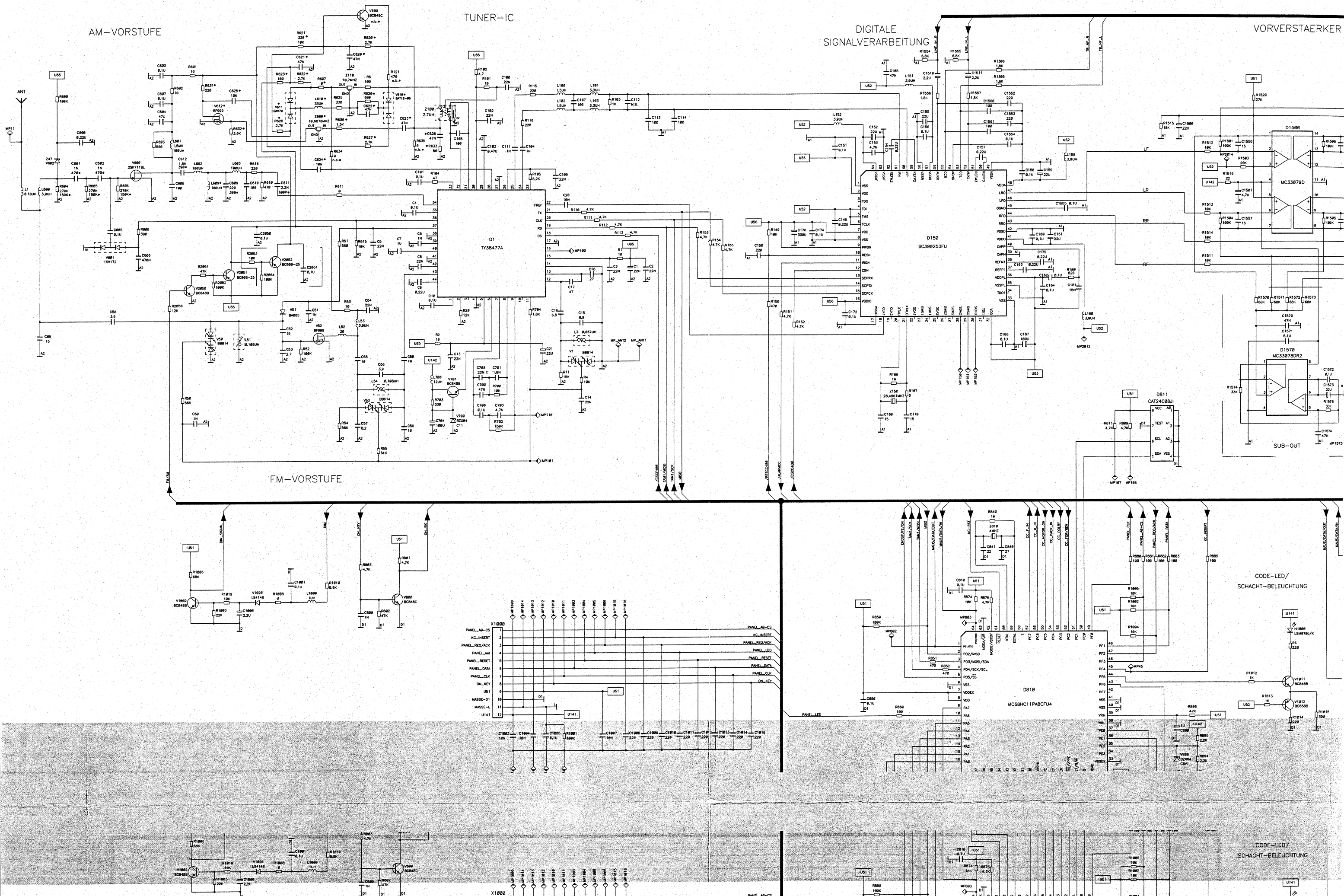
## AM-VORSTUFE

## TUNER-IC

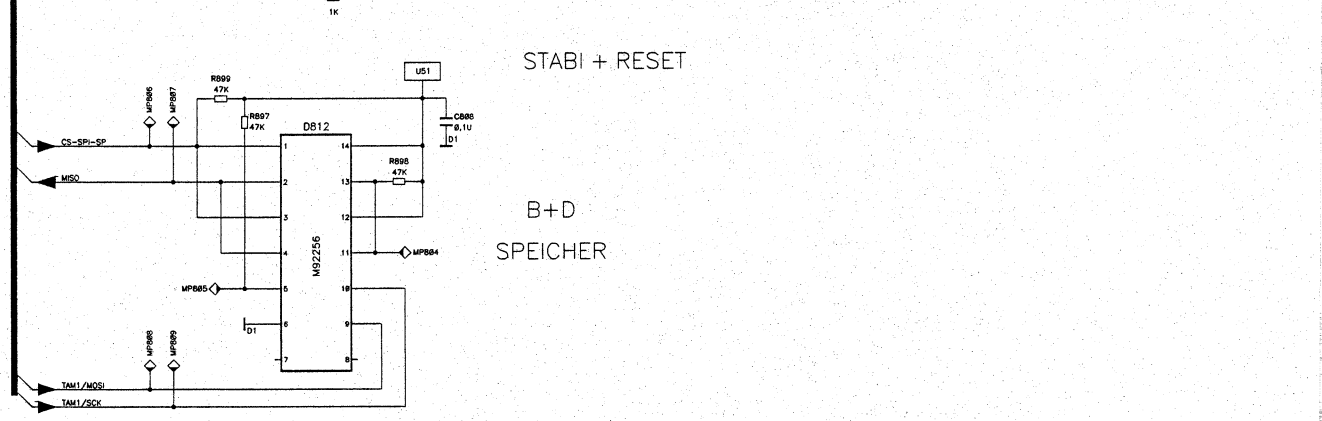
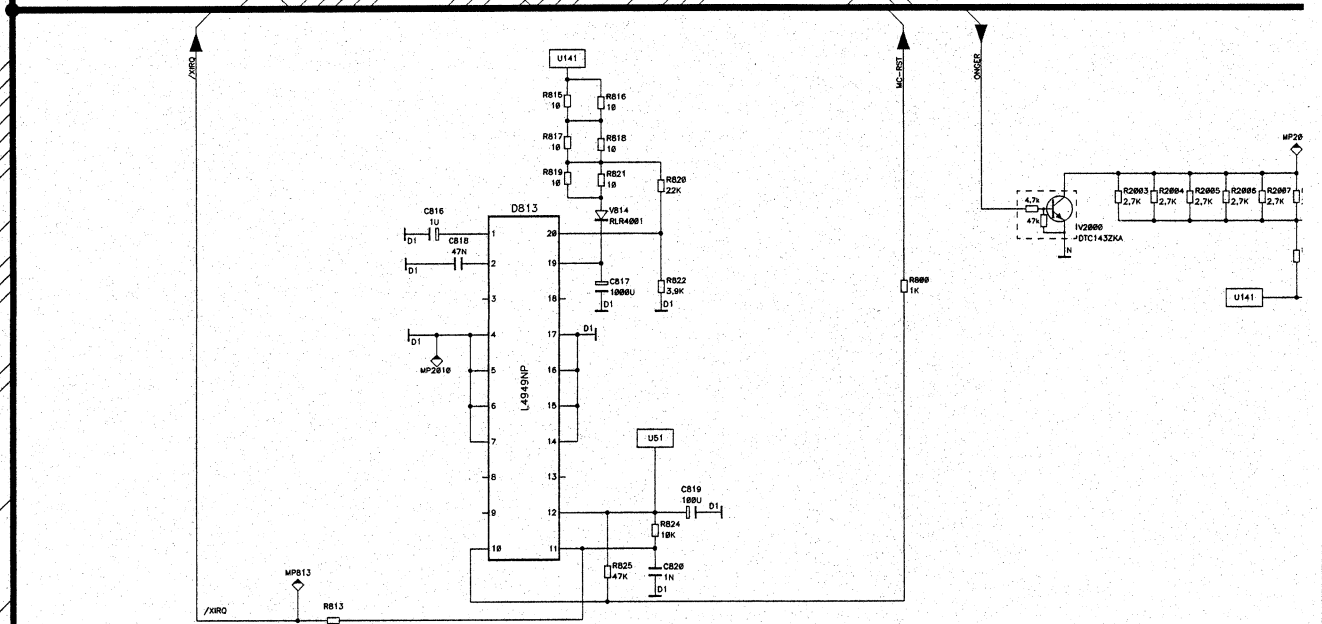
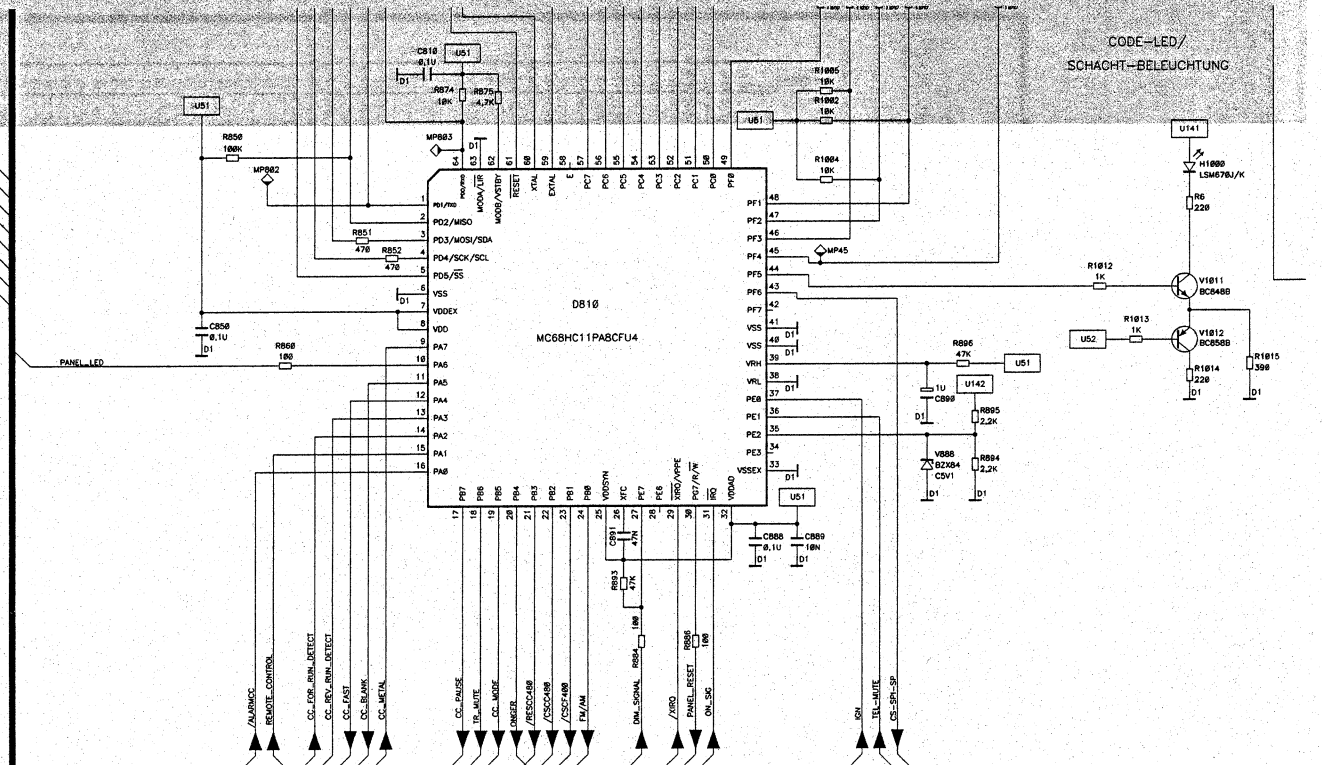
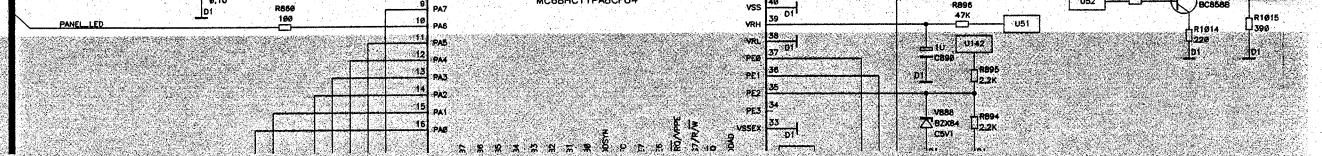
DIGITALE  
SIGNALVERARBEITUNG

## VORVERSTÄRKER

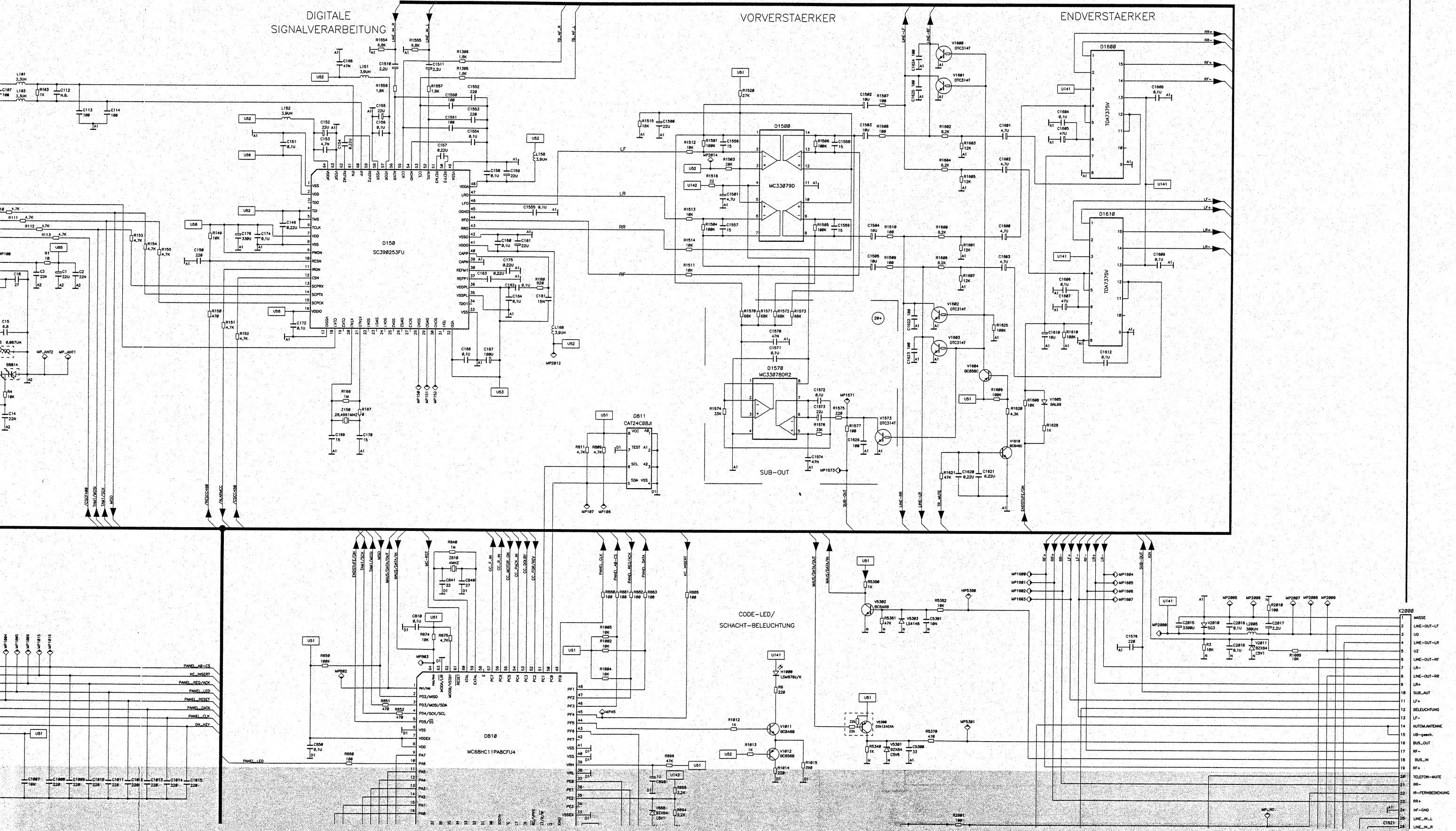
## FM-VORSTUFE

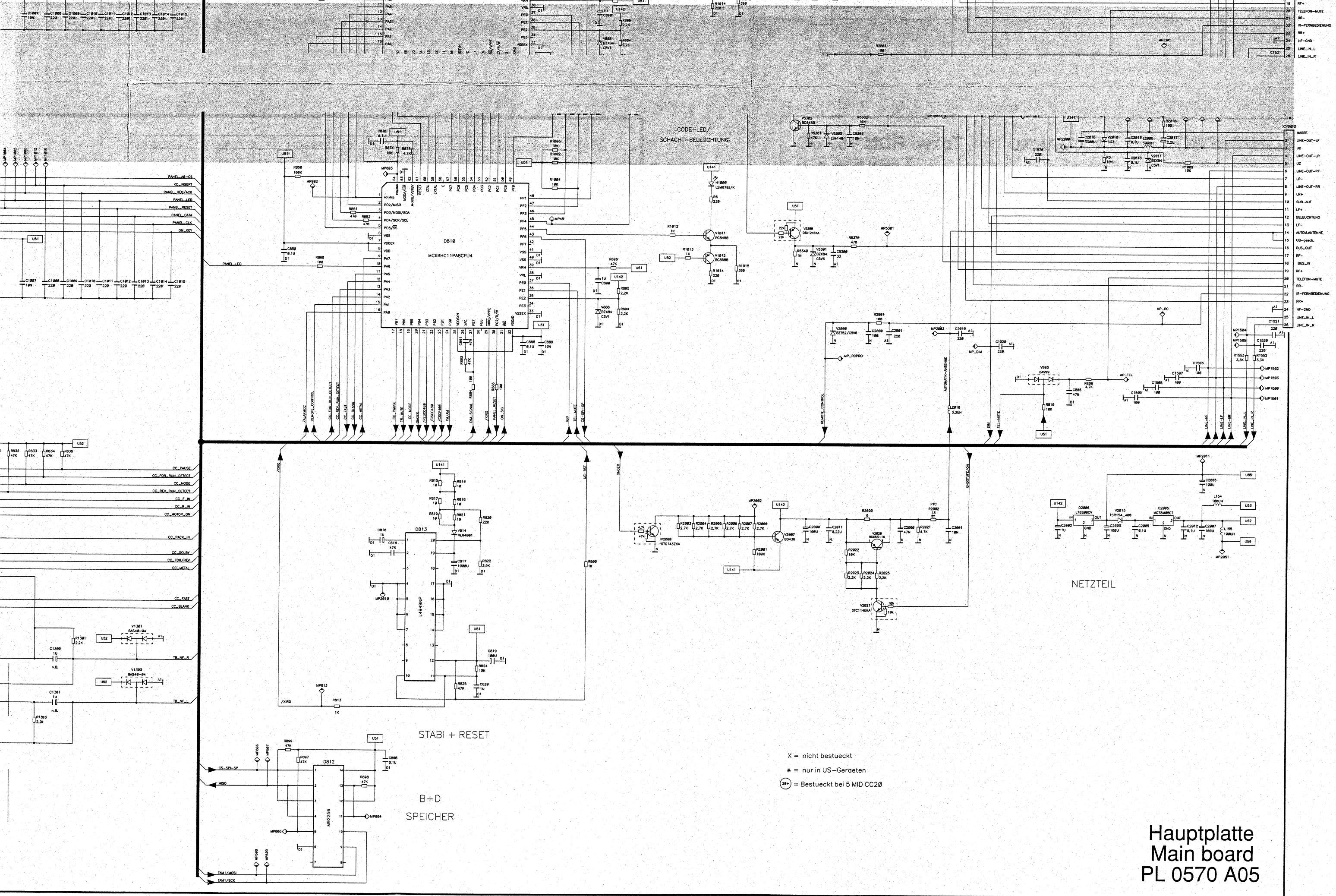
CODE-LED/  
SCHACHT-BELEUCHTUNGCODE-LED/  
SCHACHT-BELEUCHTUNG













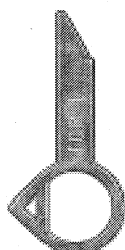
**● BLAUPUNKT****Autoradio****Audi concert TT****7 648 244 380****Audi concert****7 648 247 380**

8 622 401 812 Sa 10/98

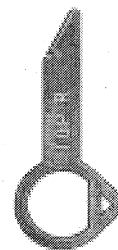
**Ersatzteilliste • Spare Parts List • Liste de rechanges • Lista de repuestos**

S 890  
8 941 481 057  
ME 3445  
8 632 064 207

ME 3450  
8 636 511 257



← 8 631 910 441 →

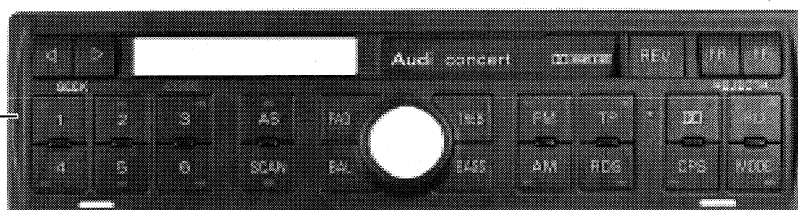


**Mechan. Bauteile**  
**Composants mécaniques**

**Mechanical parts**  
**Componentes mecánicos**

	(D)	(GB)	(F)	(E)	
ME 3140	DECKEL (OBEN)	HOUSING COVER	COUVERCLE DE BOIT.	TAPA DEL CARTER	8 635 131 600
ME 3142	DECKEL (UNTEN)	HOUSING COVER	COUVERCLE DE BOIT.	TAPA DEL CARTER	8 635 131 601
ME 3180	RÜCKWAND (KAPPE)	REAR PANEL (CAP)	PANNEAU ARRIERE (CAPUCHON)	PANEL TRASERO (CASQUETE)	8 630 060 175
ME 3220	DREHFEDER (CR-KLAPPE)	TORSION SPRING (CC-FLAP)	RESSORT DE TORSION (TRAPPE CC)	RESORTE DE TORSIÓN (TAPADERA CC)	8 634 650 175
ME 3470	LICHTLEITER	LIGHT CONDUCTOR	PL. POUR LAMPES	CONEXION FIBRA OPTICA	8 635 370 438
X 1001	STIFTLISTE (14 POL.)	PIN CONNECTOR	BARRETTE A TIGES	REGLETA DE CLAVIJA	8 638 801 193
X 1301	BUCHSENLEISTE (8 POL.)	FEMALE CONNECTOR	REGLETTE DE BORNES	REGLETA DE BORNES	8 638 800 541
X 1302	STECKERGEÄUSE (5 POL.)	PLUG HOUSING	BOITIER DE FICHE	CAJA DE CLAVIJA	8 908 603 421
X 1000	BUCHSENLEISTE (14 POL.)	FEMALE CONNECTOR	REGLETTE DE BORNES	REGLETA DE BORNES	8 638 801 192

ME 3401  
8 636 590 309

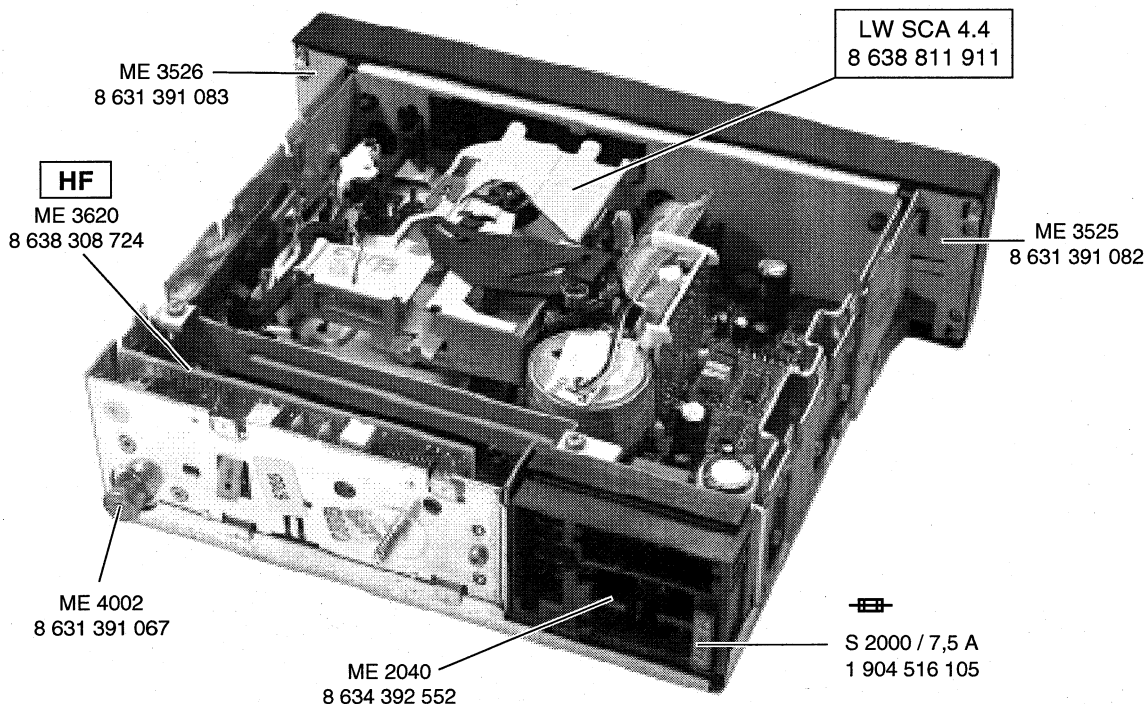
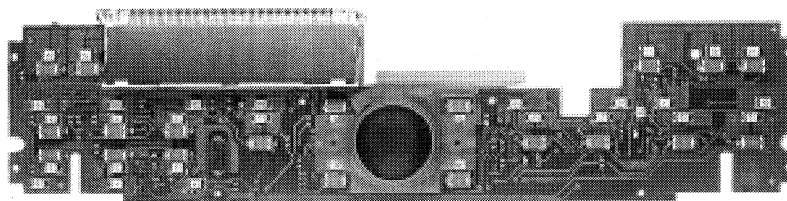










(Die abgebildete Einheit ist nur komplett zu wechseln, da die Kontaktierung der Folie nur im Fertigungsprozeß möglich ist.)  
(The illustrated unit must be exchanged completely, as the contact assignment of the foil can only be done in the manufacturing process.)  
(N'échanger l'unité illustrée que complètement, car le bonding de la feuille est seulement possible pendant le processus de fabrication.)  
(Hay que recambiar la unidad ilustrada completamente, ya que la asignación de los contactos sólo es posible dentro del proceso de fabricación.)







**LCD + Schalterplatte**








LCD + Switch board,  
LCD + Plaque d'interruption,  
LCD + Placa de interrupt

ME 3650  
8 638 812 081



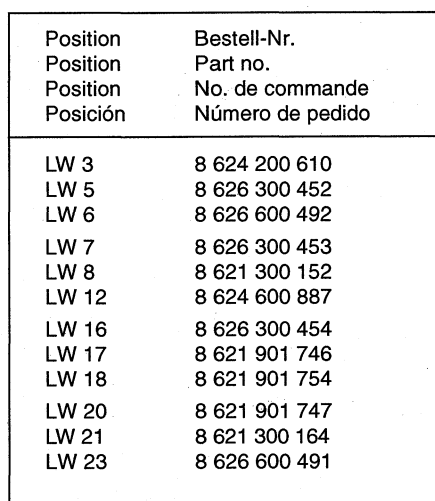
Position Position Position Posición	Bezeichnung Designation Dénomination Denominación	Bestell-Nr. Part no. No. de commande Número de pedido	Position Position Position Posición	Bezeichnung Designation Dénomination Denominación	Bestell-Nr. Part no. No. de commande Número de pedido
<b>HAUPTPLATTE, MAIN BOARD, PLAQUETTE PRINCIPALE, PLACA PRINCIPAL</b>					
					
C 2000	3300 µF	8 943 490 359	V 601	BB 512	8 925 405 159
			V 602	BB 512	8 925 405 159
			V 603	BAL 99	8 925 405 137
D 310	TDA 1592	8 925 901 456	V 604	BAL 99	8 925 405 137
D 660	TDA 1072 A	8 925 900 247	V 605	ON 4228	8 925 705 115
D 800	MC 68HC05B32 <b>7648 244</b>	8 609 500 212	V 606	BC 858 C	8 925 705 141
D 800	MC 68HC05B32 <b>7648 247</b>	8 609 500 210	V 607	BC 858 C	8 925 705 141
D 810	M 74HC132	8 925 901 841	V 608	BFS 19	8 925 705 282
D 820	MC 14551	8 925 900 912	V 609	BFR 30	8 925 705 131
D 830	MC 68HC705C <b>7648 244</b>	8 609 501 080	V 650	BB 512	8 925 405 159
D 830	MC 68HC705C <b>7648 247</b>	8 609 500 230	V 690	BC 848 B	8 925 705 043
D 1100	HA 12194 F	8 925 901 838	V 811	BC 848 B	8 925 705 043
D 1400	TDA 7342	8 925 901 723	V 812	BC 848 B	8 925 705 043
D 1500	MC 14551	8 925 900 912	V 820	BC 848 B	8 925 705 043
D 1501	LM 837	8 925 900 205	V 821	BC 848 B	8 925 705 043
D 1502	LM 837	8 925 900 205	V 823	BAV 99	8 925 405 124
D 1573	LM 837	8 925 900 205	V 824	BC 848 B	8 925 705 043
D 1600	TDA 7376 B	8 945 903 286	V 825	BAL 99	8 925 405 137
D 2010	BSP 452	8 925 705 301	V 840	BC 848 B	8 925 705 043
D 2011	BSP 452	8 925 705 301	V 841	BAW 56	8 925 405 015
D 2012	BSP 452	8 925 705 301	V 870	BC 858 B	8 925 705 038
D 2051	MC 78M05	8 945 902 581	V 871	BC 858 B	8 925 705 038
D 2050	MC 78L05	8 925 901 517	V 872	BAV 70	8 925 405 122
D 2060	L 4949	8 925 901 447	V 1050	BC 848 B	8 925 705 043
D 2061	L 4952	8 925 901 732	V 1055	BC 848 C	8 925 705 139
D 2200	MSM 6688	8 925 901 429	V 1100	BC 848 B	8 925 705 043
D 2201	MSM 6684	8 925 901 527	V 1500	BC 848 C	8 925 705 139
D 2400	TMS 375C006	8 925 901 774	V 1501	BC 848 C	8 925 705 139
D 2450	TDA 7332	8 925 900 477	V 1502	BC 848 C	8 925 705 139
D 8210	LM 258D	8 925 900 905	V 1503	BC 858 C	8 925 705 039
D 8250	RC 4558	8 925 900 308	V 1504	BC 858 C	8 925 705 039
			V 1550	BAL 99	8 925 405 137
			V 2000	S 3 G	8 925 405 023
H 1020	LHT 774	8 925 405 212	V 2011	BAS 21	8 925 405 182
			V 2012	BC 858 C	8 925 705 039
			V 2013	BAS 21	8 925 405 182
L 600		8 948 411 059	V 2012	BC 858 C	8 925 705 039
L 602		8 948 415 077	V 2030	FMMT 493	8 925 705 192
L 603		8 948 415 056	V 2031	BC 858 B	8 925 705 038
L 604		8 948 411 059	V 2032	BC 858 B	8 925 705 038
L 650		8 948 415 055	V 2033	BC 848 C	8 925 705 139
L 660		8 948 413 008	V 2034	BC 848 C	8 925 705 139
L 800		8 948 411 060	V 2035	BC 848 B	8 925 705 043
L 830		8 948 411 060	V 2036	BC 848 C	8 925 705 139
L 2000		8 948 411 065	V 2061	RLR 4001	8 925 800 044
L 2030		8 948 411 089	V 2062	BC 848 C	8 925 705 139
L 2400		8 948 411 060	V 2063	BC 848 C	8 925 705 139
L 2450		8 948 411 060	V 2064	BAL 99	8 925 405 137
			V 2080	BCX 53-16	8 925 705 137
			V 2081	BC 858 C	8 925 705 039
R 1210/ R 1220	4,7 kΩ	8 921 500 004	V 2082	BC 848 B	8 925 705 043
			V 2085	BAL 99	8 925 405 137
			V 2200	BC 858 C	8 925 705 039
V 311	DTC 143 ZK	8 925 705 234	V 2201	BC 848 C	8 925 705 139
V 315	BAL 99	8 925 405 137	V 2202	DTC 144EKT	8 925 705 264
V 340	BC 848 B	8 925 705 043	V 2203	DTC 144EKT	8 925 705 264
V 341	BAL 99	8 925 405 137	V 2300	BC 858 B	8 925 705 038
V 342	BC 848 B	8 925 705 043	V 2470	BC 858 C	8 925 705 039
V 600	Z 47	8 925 421 048	V 2471	BC 858 C	8 925 705 039
			V 2472	BC 858 C	8 925 705 039
			V 2473	BC 848 C	8 925 705 139
			V 2474	BC 848 C	8 925 705 139
			V 2475	BAW 56	8 925 405 015
			V 2800	BC 858 B	8 925 705 038
			V 2801	BAV 99	8 925 405 124
			V 5301	BC 848 B	8 925 705 043
			V 5302	BZX 84/C5V6	8 905 421 459
			V 5303	BZX 84/C5V6	8 905 421 459
			V 5304	BZX 84/C5V6	8 905 421 459

Position Position Position Posición	Bezeichnung Designation Dénomination Denominación	Bestell-Nr. Part no. No. de commande Número de pedido
V 8200	BC 808-25	8 925 705 042
V 8202	BC 808-25	8 925 705 042
V 8210	BZX 84/C4V7	8 925 421 061
V 8219	BAL 99	8 925 405 137
V 8220	BC 846 B	8 925 705 229
V 8221	BZX 84/C18	8 925 421 059
V 8222	BC 858 C	8 925 705 039
V 8223	BC 848 C	8 925 705 139
V 8224	BC 858 C	8 925 705 039
V 8225	BC 818-40	8 925 705 228
V 8226	BZX 84/C12	8 925 421 044
V 8227	BZX 84/C12	8 925 421 044
V 8228	BAV 70	8 925 405 122
V 8230	BZX 84/C4V7	8 925 421 061
V 8250	BZX 84/C4V7	8 925 421 061
V 8251	BC 848 B	8 925 705 043
		
Z 310		8 946 193 307
Z 800		8 926 193 002
Z 660		8 946 193 039
Z 850		8 946 193 039
Z 2200		8 926 193 018
Z 2410		8 926 193 001
	<b>HF - PLATTE, HF BOARD, PLAQUETTE HF, PLACA HF</b>	<b>8 638 308 724</b>
		
D 3	TDA 1575 T	8 925 900 339
D 152	TDA 1597 T	8 925 901 450
D 180	TL 072 IDR	8 925 900 201
D 700	SDA 4331	8 925 901 532
		
L 1		8 958 411 133
L 2		8 948 419 063
L 3		8 958 411 000
L 4		8 948 419 063
L 6		8 948 419 043
L 9		8 928 411 059
L 50		8 928 411 059
L 601		8 958 411 133
L 700		8 928 411 060
L 701		8 928 411 058
		
R 166	100 kΩ	8 921 500 006
		
V 1	BF 999	8 925 705 280
V 2	BC 858 C	8 925 705 039
V 4	BB 814	8 925 405 146
V 8	BB 814	8 925 405 146
V 15	BB 814	8 925 405 146
V 21	BA 885	8 925 405 530
V 50	S 247 Z	8 925 421 079
V 159	1 N 4148	8 925 405 233
V 181	BAV 99	8 925 405 124
V 183	BC 848 C	8 925 705 037
V 741	BC 848 C	8 925 705 037
		
Z 1		8 948 417 028

Position Position Position Posición	Bezeichnung Designation Dénomination Denominación	Bestell-Nr. Part no. No. de commande Número de pedido
Z 150		8 926 193 201
Z 151		8 926 193 201
Z 152		8 948 417 027
Z 155		8 926 193 201
Z 700		8 926 193 002
	<b>SCHALTERPLATTE SWITCH BOARD PLAQUE D' INTERR. PLACA DE INTERR.</b>	
		
D 1000	ST 6280BQ6	8 925 901 775
D 1001	LM 258 D	8 925 900 905
D 1070	MC 14094	8 925 900 913
		
H 1001-		
H 1085	LST 676 P/Q	8 925 405 446
		
L 1000		8 948 420 016
		
S 850-		
S 885		8 638 800 630
		
S 890		8 941 481 057
		
V 1021	SFH 320-3	8 925 705 189
V 1022	BC 858 B	8 925 705 038
V 1028	DTC 143 ZK	8 925 705 234
V 1029	BC 818-25	8 925 705 041
V 1046	DTC 143 ZK	8 925 705 234
V 1048	BC 818-25	8 925 705 041
V 1086-		
V 1091	DTC 143 ZK	8 925 705 234
V 1092	DTA 143 ZKA	8 925 705 233
V 1093	DTC 143 ZK	8 925 705 234
V 1094	DTA 143 ZKA	8 925 705 233
V 1095	BC 808-25	8 925 705 042
V 1096	DTC 143 ZK	8 925 705 234
		
Z 1009		8 926 193 012
<b>Hinweis:</b> Handelsübliche Kondensatoren und Widerstände sind in der Ersatzteilliste nicht aufgeführt. Wir bitten Sie, diese Teile im Fachhandel zu beziehen.		<b>Note:</b> Capacitors and resistors usual in trade are not mentioned in the spare parts list. Kindly buy these parts from the specialized trade.
<b>Nota:</b> Des condensateurs et résistances commerciaux ne sont pas inclus dans la liste des pièces détachées. Veuillez acheter ces pièces chez votre spécialiste.		<b>Nota:</b> No se indican en la lista de piezas de repuestos los condensadores y los resistores de uso comercial. Les rogamos comprar esas piezas en el comercio especializado.



**8 638 811 911**

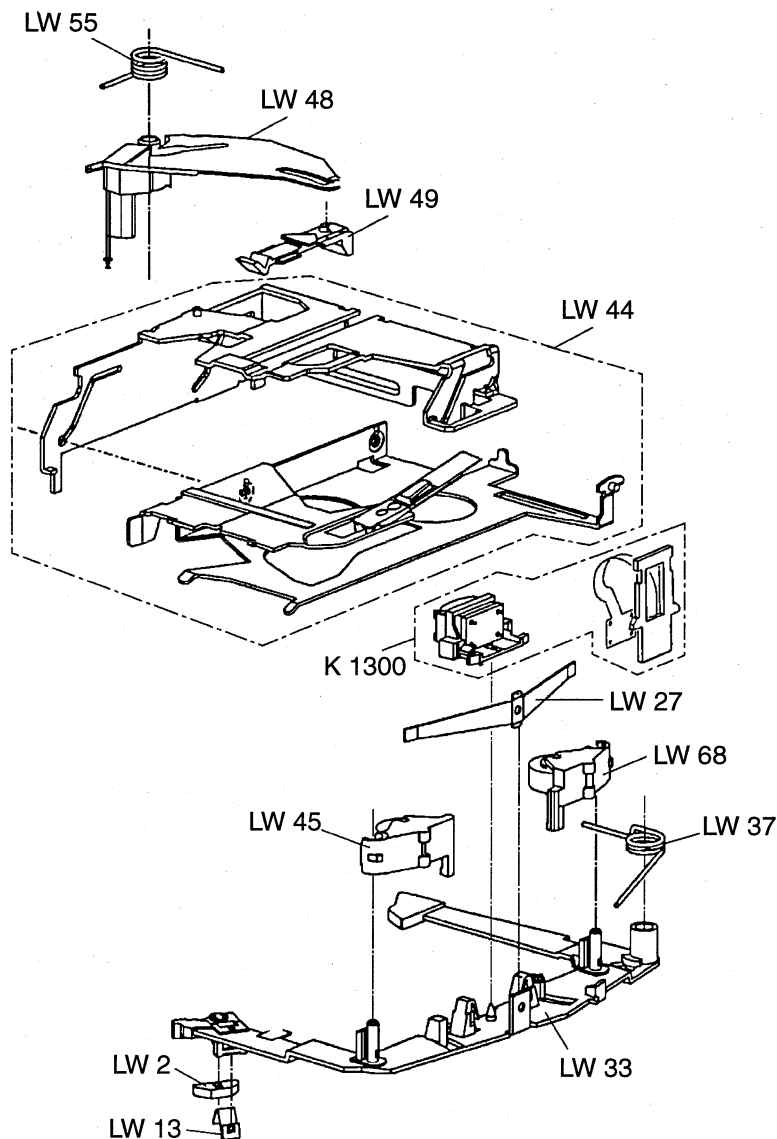


Position	Bestell-Nr.
Position	Part no.
Position	No. de commande
Posición	Número de pedido
LW 25	8 621 901 750
LW 30	8 624 700 421
LW 32	8 626 600 490
LW 50	8 626 300 451
LW 54	8 621 901 751
LW 59	8 626 600 495
LW 65	8 620 105 450
LW 69	8 621 300 562
LW 70	8 620 300 126
LW 112	8 621 300 161
S 1300	8 622 002 113
S 1301	8 622 002 112

Position	Bestell-Nr.
Position	Part no.
Position	No. de commande
Posición	Número de pedido
LW 111	
Kabelhalter/ Cable holder/ Porte-cable/ Sujecion de cable	8 620 600 027
LW 1300	8 624 200 608
M 1300 Motor	8 627 205 773
M 1301 Motor	8 627 205 774
PL 51	8 628 309 872

# Explosionszeichnung / Exploded View / Vue éclatée / Dibujo de tipo explosión

8 638 811 911



Position Position Position Posición	Bestell-Nr. Part no. No. de commande Número de pedido
LW 2	8 624 200 609
LW 13	8 621 300 163
LW 27	8 621 200 134
LW 33	8 621 300 564
K 1300	8 628 800 435
LW 37	8 624 600 885
LW 44	8 621 300 563
LW 45	8 626 600 493
LW 48	8 621 404 748
LW 49	8 621 901 749
LW 55	8 624 600 886
LW 68	8 626 600 494

**Blaupunkt-Werke GmbH, Hildesheim**

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